

SHAFT LOCK MECHANISM FOR A ROTARY POWER HAND TOOL

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Abstract of the Disclosure

2 A preferred embodiment comprises a power hand tool of the type which has a
3 generally cylindrical elongated plastic housing with a motor contained within the housing
4 and having an output shaft that extends from the front end portion of the hand tool, and
5 which has a metal front end portion that cooperates with the plastic housing to strengthen
6 a shaft locking mechanism located at the front end of the hand tool. The metal front end
7 portion not only strengthens the outer surface of the housing in the front end portion of
8 the tool, but also has a pair of internal structural ribs positioned to absorb stress that may
9 be present in the housing as a result of force applied to the shaft locking mechanism. The
10 preferred embodiment is also designed to enable the shaft locking pin mechanism to be
11 easily assembled and retained without the need for an E-clip or C-clip as is commonly the
12 practice in commercially available spiral saw hand tools.